

Claims

1. A toner cartridge for use in an electrophotographic imaging machine, comprising a photosensitive drum, process means acting upon the photosensitive drum, a rotating shaft which extends through the whole length of the drum along the drum's axis, and a mounting component which supports the photosensitive drum on the shaft, the mounting component providing electrical continuity between the inside surface of the photosensitive drum and the shaft.
2. A toner cartridge according to Claim 1 where the shaft supports the photosensitive drum at both ends.
3. A toner cartridge according to Claim 1 where the photosensitive drum rotates at the same speed as the shaft.
4. A toner cartridge according to Claim 1 where the cartridge includes a casing and the shaft is rotatably mounted in the casing of the toner cartridge.
5. A toner cartridge according to Claim 1 where the main body of the shaft is circular in cross section.
6. A toner cartridge according to Claim 1 where the shaft is of substantially square cross section.

7. A toner cartridge according to Claim 1 where the shaft is of substantially triangular cross section
8. A toner cartridge according to Claim 7 where the shaft is twisted along the axial length.
9. A toner cartridge according to Claim 1 where the shaft is arranged to receive a rotational driving force at one end from a driving component in the host machine which is coaxial with the shaft.
10. A toner cartridge according to Claim 1 where the shaft is arranged to receive a rotational driving force at one end from a driving component in a host machine which has an axis offset from the shaft axis and where the drive is transmitted from the driving component to the shaft by a gear train.
11. A toner cartridge according to Claim 1 where the shaft supports gears at either end and connects them such that they are rotatably locked with one another.
12. A toner cartridge according to Claim 11 where the gear at one end is driven by drive means external to the cartridge and the gear at the other end drives the photosensitive drum or a component which is external to the toner cartridge.